	Application No.	Applicant(s)	
	10/008,926	POBEREZHSKIY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	John D. Lee	2874	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in b) or other appropriate commu RIGHTS. This application is si	this application. If not included nication will be mailed in due course. THIS	š iti∨e
1. This communication is responsive to			
2. The allowed claim(s) is/are 1-9.			
3. The drawings filed on <u>05 December 2001</u> are accepted by	y the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the:	ınder 35 U.S.C. § 119(a)-(d) o	r (f).	
 Certified copies of the priority documents hav 	e been received.		
Certified copies of the priority documents hav	e been received in Application	ı No	
Copies of the certified copies of the priority do	ocuments have been received	in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority to reference was included in the first sentence of the specific	ation or in an Application Data	a Sheet. 37 CFR 1.78.	
(a) The translation of the foreign language provisional			
6. Acknowledgment is made of a claim for domestic priority of in the first sentence of the specification or in an Application	inder 35 U.S.C. §§ 120 and/oi n Data Sheet, 37 CFR 1.78.	121 since a specific reference was includ	ied
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this communication to file a this application. THIS THRE	eply complying with the requirements note E-MONTH PERIOD IS NOT EXTENDABI	ed LE.
7. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached EXAI res reason(s) why the oath or	MINER'S AMENDMENT or NOTICE OF declaration is deficient.	
8. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper		(PTO-948) attached	
1) hereto or 2) to Paper No		(
(b) ☐ including changes required by the proposed drawing of	correction filed . which	has been approved by the Examiner.	
(c) ☐ including changes required by the attached Examiner		• • •	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	I.84(c)) should be written on the	drawings in the front (not the back) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR 1 	ISIT OF BIOLOGICAL MATE	RIAL must be submitted. Note the AL MATERIAL.	
Attachm nt(s)			
1⊠ Notice of References Cited (PTO-892)	5 ☐ Notice of Infor	mal Patent Application (PTO-152)	
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6☐ Interview Sum	mary (PTO-413), Paper No	
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 1201	^{3),} 7□ Examiner's An	nendment/Comment	
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Sta 9∏ Other .	atement of Reasons for Allowance	
		John D. Lee Primary Examiner Art Unit: 2874	

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

The following is an Examiner's Statement of Reasons for Allowance: The prior art fails to disclose or reasonably suggest an optical frequency shifting device that utilizes an electrical signal (e.g. from a microstrip line) applied to an optically refractive material with a moving refractive boundary responsive to an applied traveling wave electrical signal (e.g. an active polymer). Such a device converts an input optical signal from one optical frequency to a different optical frequency by means of the described effect. The closest prior art is believed to be the cited U.S. Patent Application Publication to Grinberg et al and the cited ELECTRONICS LETTERS article by Udupa et al, both of which describe an active polymer used as an optical modulator by means of the effect described above. No optical frequency shifting is alluded to, however. The cited U.S. **Patent** to Chang et al also describes an optical device using an active polymer, but no optical frequency shifting is alluded to. The prior art documents submitted by applicant in the Information Disclosure Statement filed on December 5, 2001, are also relevant to an understanding of the presently claimed invention, but none discloses or suggests an optical frequency shifting device that utilizes the effect described above. Note the attached initialed copy of form PTO-1449.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning the merits of this communication should be directed to Examiner John D. Lee at telephone number (703) 308-4886. The Examiner's normal work schedule is Tuesday through Friday, 6:30 AM to 5:00 PM. Any inquiry of a general or clerical nature (i.e. a request for a missing form or paper, etc.) should be directed to the Technology Center 2800 receptionist at telephone number (703) 308-0956, to the technical support staff supervisor (Team 2) at telephone number (703) 308-3072, or to the Technology Center 2800 Customer Service Office at telephone number (703) 306-3329.

/ John D.Lee Primary Patent Examiner Group Art Unit 2874